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## ABSTRACT OF THE DISCLOSURE

A microscope system provided by the present invention in which an electronic camera is used to pick up an observation image by a microscope, comprising a  
5 controlling section for setting an image pickup operation of an image pickup element in the electronic camera to an optimum state in accordance with a state of at least one of an optical system combination for a projection magnification of at least an objective lens  
10 and a photo eyepiece on a microscope side, an observation method, and lighting conditions.